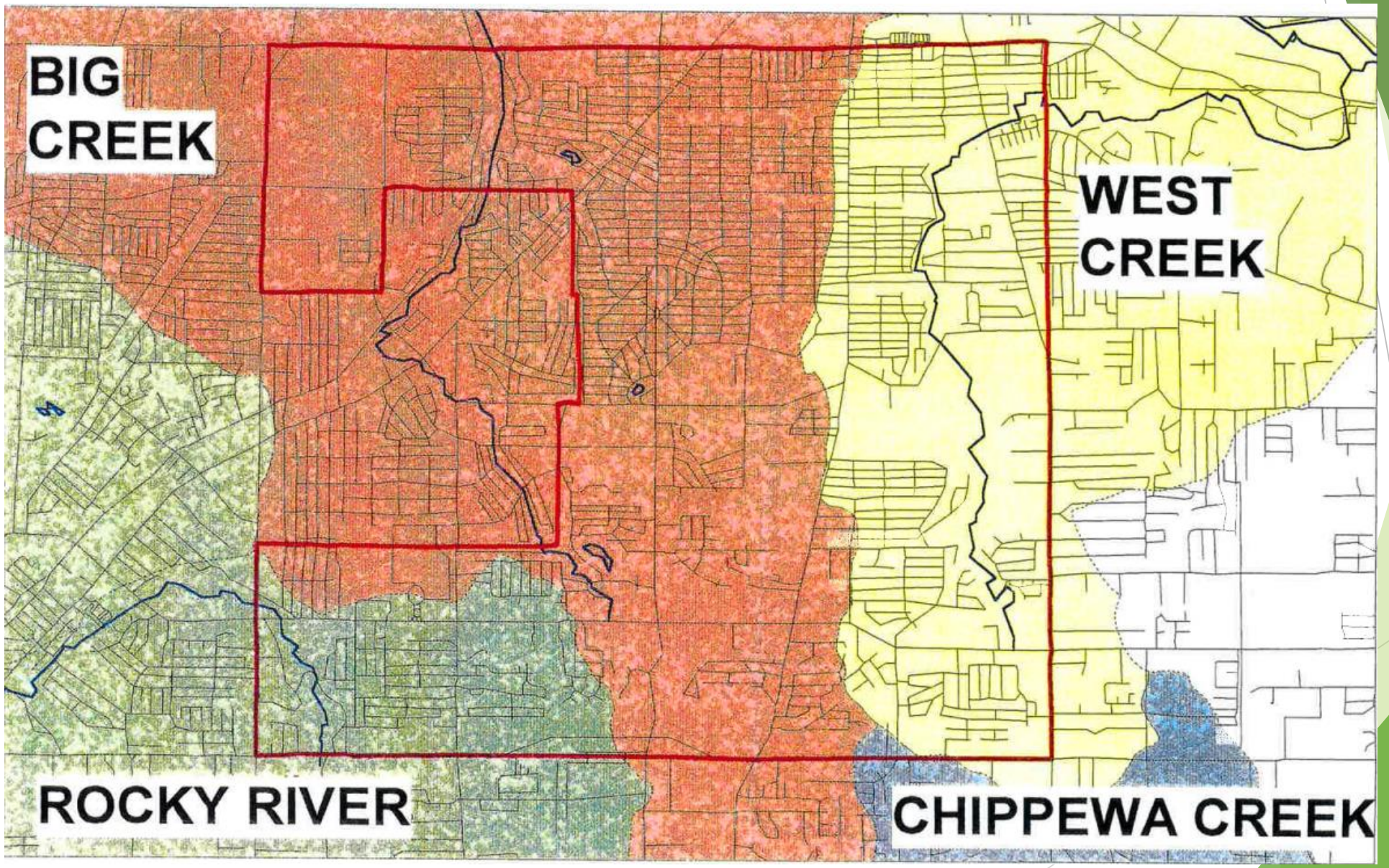
Water Summit 2022 City of Parma

Parma Infrastructure Summary

- The City of Parma is responsible for:
  - 250 miles (center line) of Roads as well as the same length of Storm, Sanitary and Waterline infrastructure
  - 257 Municipal Storm Sewer Outfalls – that end up in one of the Watersheds in Parma
  - 1300 Household Sewage Treatment Systems in the year 2000. Through projects done by the City since then, 950 homes have sanitary sewer connections reducing the amount of pollutants and contamination into our watersheds.
  - The City is responsible for 25 culverts (<10 feet span) and bridges (>10 foot span)
  - There are four watersheds within our City – Big Creek, West Creek, Rocky River and Chippewa Creek
  - There are 3600 fire hydrants located within the City Limits

Watersheds within the City of Parma



INTRODUCTION

The City of Parma in conjunction with the Northeast Regional Sewer District, has been able to successfully apply for and receive funding assistance for various sewer improvements to both its storm water and sanitary systems through the Community Cost Share (CCS) and Member Community Infrastructure Program (MCIP).

Community Cost Share Program

The CCS program gets its funding from the member communities who pay their Stormwater Management Program Fees.

Funds can then be used by Cities to promote or implement the goals and objectives of the District to address stormwater problems including but not limited to: equipment purchases related to storm water management, storm water pipes and catch basins repair and replacement etc. The City of Parma has utilized almost $3.0 million dollars

All activities proposed by Member Communities for funding assistance must clearly promote the goals of the District related to stormwater such as capital projects or the purchase of equipment

CCS Funded Projects

New Sewer Vactor Truck for the City of Parma Service Department- $ 475,000
2017 - Catch Basin Improvement Project - $ 305,000
2019 – Catch Basin Improvement Project - $ 750,000
2020 – Catch Basin Improvement Project - $ 500,000
2021 Catch Basin Improvement Project - $500,000
Orchard Park/Forest Hills Stormwater Improvement Project (2019) - $ 600,000
Skylark Culvert Repair (2020)- $ 15,000
South Canterbury Culvert Improvement/Rehabilitation (2020) - $ 245,174
Headwall Repair/Rehabilitation 1560 Lourdes (2020)- $ 127,500

TOTAL DOLLARS UTILIZING THE CCS PROGRAM- $ 3,042,674

Member Community Infrastructure Program

The MCIP program is a funding program to address water quality and quantity issues that affect human health and the environment through cost effective sewer infrastructure projects.

Identify and remove sources of inflow and infiltration from the Storm Water Sewer System into the Sanitary Storm Sewer System. Also using this program to remove and replace failing septic systems by the installation of new sanitary sewer mains and house connections as well as constructing relief sanitary sewers.

Funds are available annually through a competitive process and upon approval of the Board of Trustees.

Since the program's inception, the City of Parma has secured over $3.5 million dollars for sanitary sewer improvements

MCIP Funded Projects

Ridge Road Phase II (NR Corp Line to Pleasant Valley) Sanitary Imp. - $ 340,000
Brookdale Broadview Sanitary Sewer Improvement - $160,000
Broadrock Court Drill Drop Project - $ 250,000
Broadrock Court and Old Rockside Sanitary Sewer Improvement - $260,000
Sprague Road Widening (Sanitary Sewer Component) - $ 421,847
Valley Villas/York/State Road Sanitary Sewer Improvement - $ 480,000
Krueger Avenue Phase I Sewer Improvements - $750,000
Green Acres Area Sewer Improvements - $350,000
Ridge Road Phase III (Pleasant Valley to Selwick) Sanitary Improvements - $480,000

TOTAL DOLLARS UTILIZING MCIP FUNDS - $ 3,500,000

Army Corps of Engineers

- The City of Parma annually applies for funding assistance for wastewater related projects through the Corp's Section 594 Program
- The improvements include:
  - Local Sewer Improvements
  - Drill Drop Structure
  - Any wastewater related Project
- The City has secured approximately $6M through this program for various projects

Cleveland Water Department
Suburban Water Main Renewal Program SWMR

- Under this program, the City is able to apply for monies to replace existing water infrastructure that has outlived its useful service life
- The program is competitive with the CWD accepting applications twice per year
- Under this program, new water line mains are installed as well as house connections up to the Right of Way line. In addition, the Cleveland Water department replaces at their cost, any existing lead service lines all the way up to the house. New fire hydrants are also installed as a part of this program.

- Under this program the City has been successful in obtaining almost $7.0 million dollars.

City of Parma and the Cuyahoga County Department of Public Works

- The City of Parma works in conjunction with the Cuyahoga County Department of Public Works under the Storm/Sanitary Maintenance Program.
  - This program includes items of work such as:
    - Repairs to our storm/sanitary system
    - Dye testing to look for Inflow/Infiltration issues
  - On average, the County spends about $4.0 million dollars on these items of work.

City of Parma and the Soil and Water Conservation District (CWSD)

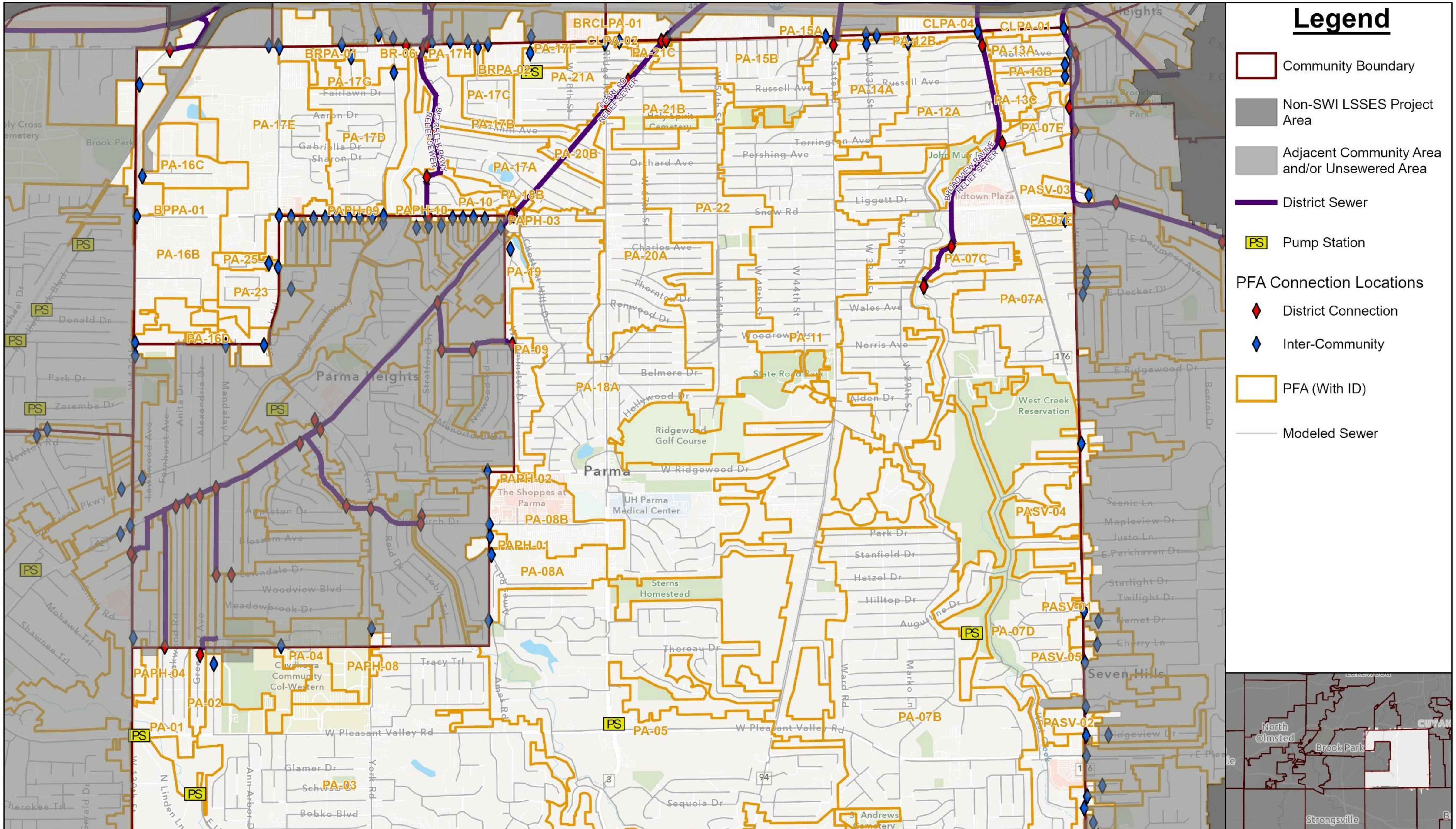
- Both organizations work in partnership on Parma's Storm Water Projects

City of Parma and the Cuyahoga County Board of Health

Both organizations work to identify and eliminate Illicit Discharges with the Ohio Environmental Protection Agency

Peak Flow Rate Areas

This study uses peak flow rate areas (PFAs) as the basis for analyzing system performance and presenting potential improvements. PFAs are defined by the sewer subsystems in each community that discharge independently to the District SWI system, or in some cases, to an adjacent community. The independent discharge to District sewers typically allows consideration of these PFA sewer systems apart from the systems in neighboring PFAs



Legend
Community Boundary
Non-SWI LSSES Project Area
Adjacent Community Area and/or Unsewered Area
District Sewer
PS
Pump Station
PFA Connection Locations
District Connection
Inter-Community
PFA (With ID)
Modeled Sewer
Parma
Parma Heights
Seven Hills
North Olmsted
Brook Park
Strongsville
BRCLPA-01
CLPA-02
CLPA-04
CLPA-01
BRPA-01
BR-06
PA-17H
BRPA-02
PA-17F
PA-21C
PA-15A
PA-15B
PA-12B
PA-13A
PA-13B
PA-13C
PA-17G
PA-17C
PA-21A
PA-21B
PA-14A
PA-12A
PA-17E
PA-17D
PA-17B
PA-07E
PA-16C
PA-20B
PA-17A
PA-10
PA-18B
PASV-03
BPPA-01
PAPH-09
PAPH-10
PAPH-03
PA-22
PA-07F
PA-16B
PA-25
PA-20A
PA-07C
PA-19
PA-23
PA-07A
PA-16D
PA-11
PA-09
PA-18A
PAPH-02
PA-08B
PASV-04
PAPH-01
PA-08A
PASV-01
PA-07D
PA-04
PAPH-08
PASV-05
PAPH-04
PA-02
PA-07B
PA-01
PA-05
PASV-02
PA-03
BIG CREEK PKWY RELIEF SEWER
PEARL RD RELIEF SEWER
BROADVIEW RAVINE RELIEF SEWER
Ridgewood Golf Course
UH Parma Medical Center
The Shoppes at Parma
Stearns Homestead
State Road Park
West Creek Reservation
Cuyahoga Community College Western
Holy Spirit Cemetery
Midtown Plaza
John Muir
W Ridgewood Dr
W Pleasant Valley Rd
Snow Rd
Russell Ave
Pershing Ave
Orchard Ave
Charles Ave
Thornton Dr
Renwood Dr
Woodrow Ave
Belmore Dr
Hollywood Dr
Liggett Dr
Wales Ave
Norris Ave
Alden Dr
Park Dr
Stanfield Dr
Hetzel Dr
Hilltop Dr
Augustine Dr
Thoreau Dr
Tracy Trl
Glamer Dr
Bobko Blvd
Sequoia Dr
Fairlawn Dr
Aaron Dr
Gabriella Dr
Sharon Dr
Donald Dr
Park Dr
Zaremba Dr
Newton Rd
Appleton Dr
Blossom Ave
Lowndale Dr
Woodview Blvd
Meadowbrook Dr
Ward Rd
Marko Ln
State Rd
W 54th St
W 48th St
W 44th St
W 33rd St
W 29th St
W 20th St
W 130th St
Ames Rd
York Rd
N Linden Ln
Ann Arbor Dr
E Ridgewood Dr
E Dartmoor Ave
E Decker Dr
Scenic Ln
Mapleview Dr
Justo Ln
E Parkhaven Dr
Starlight Dr
Twilight Dr
Cherry Ln
Ridgeview Dr
Brook Park
Holy Cross Cemetery
Cherokee Trl
Shawnee Trl
Mohawk Trl